## Amendments to the Claims:

1. (currently amended) A method for forming a (111) oriented crystalline dielectric layer comprising:

forming a first capacitor electrode layer on a substrate;

exposing the substrate to a first gas that includes material to form the dielectric layer at a first temperature that is between approximately 430 to 460 degrees Celsius; and exposing the substrate to a second gas that includes material to form the dielectric layer at a second temperature that is approximately 640 degrees Celsius; wherein the second temperature is higher than the first temperature;

wherein a (111) oriented crystalline dielectric layer is formed.

- 2. (original) The method of claim 1, wherein the first gas includes material that forms an oxide or titanate.
- 3. (original) The method of claim 1, wherein the first and second gas are the same.
- 4. (original) The method of claim 1, wherein the first and second gas comprise barium, strontium, titanium, and oxygen.
- 5. (original) The method of claim 4, wherein the first electrode comprises a (111) oriented conductor.
  - 6. (canceled)
- 7. (currently amended) The method of claim 5, wherein the duration of the exposure of the first gas at a first temperature is about 2 to 30 100 seconds.

- 8. (canceled)
- 9. (currently amended) A method for forming a (111) oriented crystalline barium strontium titanium oxide layer with high capacitance comprising:

depositing a capacitor electrode layer on a substrate, wherein the electrode layer comprises a crystalline oriented film;

nucleating a seed layer for effecting a (111) orientation of the barium strontium titanium oxide (BSTO), wherein the substrate is exposed to a gas comprising a metal oxide at a first temperature that is between approximately 430 and 460 degrees Celsius; and

growing a continuous layer of (111) oriented barium strontium titanium oxide, wherein the substrate is exposed to a gas comprising barium, strontium, titanium, and oxygen at a second temperature that is approximately 640 degrees Celsius.

- 10. (original) The method of claim 9, further comprising preparing the metal surface before the step of nucleating a seed layer.
- 11. (original) The method of claim 9, wherein the metal electrode comprises (111) oriented platinum.
- 12. (original) The method of claim 10, wherein preparing the metal surface includes exposing the substrate to a third temperature for less than about 60 seconds.
- 13. (original) The method of claim 11, wherein the gas used for nucleating a seed layer and the gas used for growing a continuous film are the same.

## 14. (canceled)

15. (currently amended) The method of claim 13, wherein the duration of the exposure of the substrate to a gas comprising a metal oxide at a first temperature is about 2 to 30 100 seconds.

16. (canceled)

17. (canceled)

18. (original) The method of claim 17, wherein the continuous layer of (111) oriented barium strontium titanium oxide has a thickness of about 5 to 30 nanometers.

19. (currently amended) A method for growing a (111) oriented BSTO crystalline layer for use as a capacitor comprising:

forming a (111) oriented crystalline first electrode on a substrate;

heating the substrate to a temperature that is between approximately 430 and 460 degrees Celsius which is sufficient to render the electrode surface substantially clean, but less than that necessary to cause a degradation in the (111) crystalline orientation of the surface;

heating the substrate to a second temperature that is approximately 640 degrees

Celsius and exposing the substrate to a gas including the elements comprising a first

metal oxide, wherein the second temperature is sufficiently high to form a plurality of

crystalline seeds required to subsequently form the (111) oriented crystalline BSTO layer,

and further wherein the second temperature is less than that necessary to cause a

degradation in the degree of (111) crystalline orientation of the BSTO crystalline layer;

and

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heating the substrate to a third temperature and exposing the substrate to a gas including the elements comprising a second metal oxide, wherein the third temperature is sufficiently high to grow a (111) oriented crystalline BSTO layer from the crystalline seeds.

20. (original) The method of claim 19, wherein the first metal oxide and second metal oxide are the same.